

# **18th International Magnetic Measurement Workshop (IMMW18)**

**Monday 03 June 2013 - Friday 07 June 2013**

**Berkner Hall  
Programme**

# Table of contents

Monday 03 June 2013 .....	1
Registration .....	1
Welcome and Opening Remarks .....	1
Overview 1 .....	1
Lunch Break .....	1
Overview 2 .....	1
Welcome Reception .....	1
Tuesday 04 June 2013 .....	2
Overview 3 .....	2
Measurement Reports 1 .....	2
Lunch Break .....	2
Measurement Reports 2 .....	2
Coffee Break (Hosted by Danfysik) .....	2
Measurement Reports 3 .....	2
Wednesday 05 June 2013 .....	4
Hall/NMR .....	4
Coffee Break .....	4
Wire Based Measurements .....	4
Lunch Break .....	4
Visits to Measurement Labs and NSLS-II .....	4
Coffee Break .....	4
Workshop Dinner .....	4
Thursday 06 June 2013 .....	5
Insertion Devices 1 .....	5
Coffee Break .....	5
Insertion Devices 2 .....	5
Instruments 1 .....	5
Friday 07 June 2013 .....	7
Instruments 2 .....	7

# Monday 03 June 2013

## Registration - Room B (08:30-09:00)

## Welcome and Opening Remarks - Room B (09:00-09:30)

## Overview 1 - Room B (09:30-12:30)

- Conveners: DiMarco, Joseph (Fermilab)

time title

09:30	<b>Measurement challenges at CERN (00h30')</b> <i>Presenter: RUSSENSCHUK, Stephan</i>
10:00	<b>Overview of the activities and challenges of the magnet section at the Paul Scherrer Institut (00h30')</b> <i>Presenter: SANFILIPPO, Stephane (PSI)</i>
10:30	Coffee Break (00h30')
11:00	<b>Magnetic Measurements At SLAC (00h30')</b> <i>Presenter: WOLF, Zachary (SLAC)</i>
11:30	<b>Magnet Mass Production and Field Measurements Results for TPS (00h30')</b> <i>Presenter: HWANG, Ching-Shiang (NSRRC)</i>
12:00	<b>Measurement of the Superconducting Magnets for the XFEL Project at DESY (00h30')</b> <i>Presenter: BRUECK, Heiner (DESY)</i>

## Lunch Break - (12:30-14:30)

## Overview 2 - Room B (14:30-17:00)

- Conveners: Sanfilippo, Stephane (PSI)

time title

14:30	<b>Magnets for a new low emittance storage ring at The ESRF (00h30')</b> <i>Presenter: CHAVANNE, Joel (ESRF)</i>
15:00	<b>Magnetic measurements at ALBA: General status. (00h30')</b> <i>Presenter: CAMPMANY, Josep (ALBA)</i>
15:30	<b>Magnet measurements for the JLab 12GeV upgrade (00h30')</b> <i>Presenter: BAGETT, Ken (TJNAF)</i>
16:00	Coffee Break (00h30')
16:30	<b>Update on Metrolab's new developments (00h30')</b> <i>Presenter: KELLER, Philip (Metrolab)</i>

## Welcome Reception - Terrace Room (18:00-20:00)

## Tuesday 04 June 2013

### Overview 3 - Room B (09:00-11:00)

- Conveners: Hwang, Ching-Shiang (NSRRC)

time title

09:00	<b>Measurement challenges for the CLIC study (00h30')</b> <i>Presenter: GARCIA PEREZ, Juan (CERN)</i>
09:30	<b>Overview of LBNL magnetic measurement activities (00h30')</b> <i>Presenter: MADUR, Arnaud (LBNL)</i>
10:00	<b>Overview of magnetic measurements at Danfysik (00h30')</b> <i>Presenter: OSTENFELD, Christopher (Danfysik)</i>
10:30	Coffee Break (00h30')

### Measurement Reports 1 - Room B (11:00-12:30)

- Conveners: Buzio, Marco (CERN)

time title

11:00	<b>DC Magnetic Field Measurement of the CSNS/RCS Quadrupole Magnet (00h30')</b> <i>Presenter: ZHOU, Jianxin (IHEP)</i>
11:30	<b>Magnetic measurement of superconducting magnets with the FAME system (00h30')</b> <i>Presenter: FISCARELLI, Luccio (CERN)</i>
12:00	<b>Mu2e Magnetic Measurements (00h30')</b> <i>Presenter: BUEHLER, Marc (Fermilab)</i>

### Lunch Break - (12:30-14:30)

### Measurement Reports 2 - Room B (14:30-16:00)

- Conveners: Brueck, Heiner (DESY)

time title

14:30	<b>Magnetic Measurements of MEDAUSTRON Quadrupole Magnets and Comparison with CERN Measurements (00h30')</b> <i>Presenter: LERAY, Marie-Julie (Sigma Phi)</i>
15:00	<b>Status of the magnetic measurements for the MedAustron project (00h30')</b> <i>Presenter: GOLLUCCIO, Giancarlo (MedAustron)</i>
15:30	<b>Recent advances in pulsed-mode measurements at CERN (00h30')</b> <i>Presenter: CHRITIN, Regis (CERN)</i>

### Coffee Break (Hosted by Danfysik) - Lobby outside Room B (16:00-16:30)

### Measurement Reports 3 - Room B (16:30-18:00)

- Conveners: Campmany, Josep (ALBA)

time title

16:30	<b>Measurements of MAX-IV girder systems (00h30')</b> <i>Presenter: OSTENFELD, Christopher (Danfysik)</i>
17:00	<b>Review of production measurements by BSL for NSLS-II storage ring magnets (00h30')</b> <i>Presenter: JONES, Tobin (Buckley Systems)</i>
17:30	<b>Production Measurements for NSLS-II: Lessons Learned (00h30')</b> <i>Presenter: JAIN, Animesh (BNL)</i>

## Wednesday 05 June 2013

### Hall/NMR - Room B (09:00-10:30)

- Conveners: Keller, Philip (Metrolab)

time title

09:00	<b>Novel Design of a Miniature Highly Accurate Three-Axis Hall Sensor (00h30')</b> <i>Presenter: WOUTERS, Christina (PSI)</i>
09:30	<b>The details of Senis Hall probe calibration limitations (00h30')</b> <i>Presenter: VASSERMAN, Isaac (Argonne)</i>
10:00	<b>Looking for a Hall probe bench for closed big magnetic structures (00h30')</b> <i>Presenter: CAMPMANY, Josep (ALBA)</i>

### Coffee Break - Lobby Outside Room B (10:30-11:00)

### Wire Based Measurements - Room B (11:00-12:30)

- Conveners: Wolf, Zachary (SLAC)

time title

11:00	<b>The theory of the vibrating wire system (00h30')</b> <i>Presenter: RUSSENSCHUCK, Stephan (CERN)</i>
11:30	<b>Single-stretched wire and vibrating-wire measurements at CERN (00h30')</b> <i>Presenter: DEFERNE, Guy (CERN)</i>
12:00	<b>Stretched wire measurements of magnet girders (00h30')</b> <i>Presenter: LE BEC, Gael</i>

### Lunch Break - Room B (12:30-14:00)

### Visits to Measurement Labs and NSLS-II - (14:00-16:15)

### Coffee Break - Lobby outside Room B (16:15-16:45)

### Workshop Dinner - Sea Star South Ballroom (18:30-21:00)

## Thursday 06 June 2013

### Insertion Devices 1 - Room B (09:00-10:30)

- Conveners: Chavanne, Joel (ESRF)

time title

09:00	<b>Measurements of SOLEIL insertion devices using the pulsed wire method (00h30')</b> <i>Presenter: VALLEAU, Mathieu (SOLEIL)</i>
09:30	<b>Using an in-situ field measurement system to measure the magnetic field of the in-vacuum undulator (00h30')</b> <i>Presenter: YANG, Chin-kang (NSRRC)</i>
10:00	<b>Investigation of the Earth Field Effect on the Insertion Device performance at the Advanced Photon Storage Ring (00h30')</b> <i>Presenter: VASSERMAN, Isaac (Argonne)</i>

### Coffee Break - Lobby outside Room B (10:30-11:00)

### Insertion Devices 2 - Room B (11:00-15:00)

- Conveners: Arpaia, Pasquale (CERN/University of Sannio)

time title

11:00	<b>Magnetic measurements and tuning of FLASH II undulators (00h30')</b> <i>Presenter: VAGIN, Pavel (DESY)</i>
11:30	<b>The Tuning of APPLE Device with Shimming (00h30')</b> <i>Presenter: ABLIZ, Melike (Argonne)</i>
12:00	<b>Long Term Monitoring of the LCLS-I Undulators (00h30')</b> <i>Presenter: LEVASHOV, Yurii (SLAC)</i>
12:30	Lunch Break (02h00')
14:30	<b>Magnetic Measurement Results of the first APS Superconducting Undulator (00h30')</b> <i>Presenter: DOOSE, Chuck (Argonne)</i>

### Instruments 1 - Room B (15:00-18:00)

- Conveners: Vasserman, Isaac (Argonne)

time title

15:00	<b>Magnetic Field Measurement Devices for Superconducting Undulator Coils at ANKA (00h30')</b> <i>Presenter: GRAU, Andreas (Karlsruhe)</i>
15:30	<b>Standardization of the CERN Equipment to cope with the Magnetic Measurement Requests from a Variety of Accelerator Projects (00h30')</b> <i>Presenter: DUNKEL, Olaf (CERN)</i>
16:00	Coffee Break Hosted by Danfysik (00h30')
16:30	<b>A 100-ppm Cryogenic DC Current Transformer for 100-kA Superconducting Cable Testing (00h30')</b> <i>Presenter: ARPAIA, Pasquale (CERN)</i>
17:00	<b>Preliminary metrological characterization of the Fast Digital Integrator FDI-V5 (00h30')</b> <i>Presenter: FISCARELLI, Luccio (CERN)</i>

17:30	<b>Multimode Digital integrators with rigid triggering (00h30')</b>
-------	---

*Presenter: VAGIN, Pavel (DESY)*



# Friday 07 June 2013

## Instruments 2 - Room B (09:30-12:30)

- Conveners: Russenschuk, Stephan (CERN)

time title

09:30	<b>Application of PCB and FDM Technologies for Magnetic Measurement Probe Development (00h30')</b> <i>Presenter: DIMARCO, Joseph (Fermilab)</i>
10:00	<b>Calibration and performance of the rotating coil system for CERN Linac4 quadrupoles (00h30')</b> <i>Presenter: BUZIO, Marco (CERN)</i>
10:30	Coffee Break (00h30')
11:00	<b>A flipping-coil field measurement system for the CSNS/RCS dipole magnet (00h30')</b> <i>Presenter: YANG, Mei (IHEP)</i>
11:30	<b>Safety and health impact of magnetic fields (00h30')</b> <i>Presenter: BUZIO, Marco (CERN)</i>
12:00	<b>Close Out (00h30')</b>